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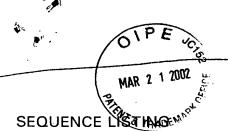
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<110> Pierre Fabre M θ dicament

<120> USE OF ACTIVE P40 CONJUGATES FOR NASAL DELIVERY

<130> D17064

<140> PCT/FR99/00703

<141> 1999-03-26

<150> FR 98 03814

<151> 1998-03-27

<160> 136

<170> PatentIn Vers. 2.0

<210> 1

<211> 1032

<212> DNA

<213> Klebsiella pneumoniae

<220>

<221> CDS

<222> (1)..(1032)

<223> rP40

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tat gca ggt ggt aaa ctg ggt tgg tcc cag tat cac gac acc ggt ttc 96 Tyr Ala Gly Gly Lys Leu Gly Trp Ser Gln Tyr His Asp Thr Gly Phe 20 25 30

tac ggt aac ggt ttc cag aac aac ggt ccg acc cgt aac gat cag 144 Tyr Gly Asn Gly Phe Gln Asn Asn Asn Gly Pro Thr Arg Asn Asp Gln 35 40 45

ttc gaa atg ggt tat gac tgg ctg ggc cgt atg gca tat aaa ggc agc 240 Phe Glu Met Gly Tyr Asp Trp Leu Gly Arg Met Ala Tyr Lys Gly Ser 65 70 75 80
gtt gac aac ggt gct ttc aaa gct cag ggc gtt cag ctg acc gct aaa 288 Val Asp Asn Gly Ala Phe Lys Ala Gln Gly Val Gln Leu Thr Ala Lys 85 90 95
ctg ggt tac ccg atc act gac gat ctg gac atc tac acc cgt ctg ggc 336 Leu Gly Tyr Pro Ile Thr Asp Asp Leu Asp Ile Tyr Thr Arg Leu Gly 100 105 110
ggc atg gtt tgg cgc gct gac tcc aaa ggc aac tac gct tct acc ggc 384 Gly Met Val Trp Arg Ala Asp Ser Lys Gly Asn Tyr Ala Ser Thr Gly 115 120 125
gtt tcc cgt agc gaa cac gac act ggc gtt tcc cca gta ttt gct ggc 432 Val Ser Arg Ser Glu His Asp Thr Gly Val Ser Pro Val Phe Ala Gly 130 140
ggc gta gag tgg gct gtt act cgt gac atc gct acc cgt ctg gaa tac 480 Gly Val Glu Trp Ala Val Thr Arg Asp Ile Ala Thr Arg Leu Glu Tyr 145 150 155 160
cag tgg gtt aac aac atc ggc gac gcg ggc act gtg ggt acc cgt cct 528 Gln Trp Val Asn Asn lle Gly Asp Ala Gly Thr Val Gly Thr Arg Pro 165 170 175
gat aac ggc atg ctg agc ctg ggc gtt tcc tac cgc ttc ggt cag gaa 576 Asp Asn Gly Met Leu Ser Leu Gly Val Ser Tyr Arg Phe Gly Gln Glu 180 185 190
gat gct gca ccg gtt gtt gct ccg gct ccg gct ccg gct ccg gaa gtg 624 Asp Ala Ala Pro Val Val Ala Pro Ala Pro Ala Pro Ala Pro Glu Val 195 200 205
gct acc aag cac ttc acc ctg aag tct gac gtt ctg ttc aac ttc aac 672 Ala Thr Lys His Phe Thr Leu Lys Ser Asp Val Leu Phe Asn Phe Asn 210 215 220
aaa gct acc ctg aaa ccg gaa ggt cag cag gct ctg gat cag ctg tac 720 Lys Ala Thr Leu Lys Pro Glu Gly Gln Gln Ala Leu Asp Gln Leu Tyr 225 230 235 240
act cag ctg agc aac atg gat ccg aaa gac ggt tcc gct gtt gtt ctg 768 Thr Gln Leu Ser Asn Met Asp Pro Lys Asp Gly Ser Ala Val Val Leu

Gly Tyr T		cgc atc g Arg lle G						816
	Arg Ala	cag tcc g Gln Ser \ 280	/al Val A		Leu Va		-	864
		atc tcc g lle Ser Al 295		-				912
	Asn Thr	tgt gac a Cys Asp 310	Asn Val	-			g atc gat ₋eu lle As	960 p
		gat cgt co Asp Arg				Lys Gl	tac aaa y Tyr Lys	1008
Glu Val V		ag cct ca Gln Pro G					1032	
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Tyr Gly <i>A</i> 35		Phe Gln 40	Asn Asn	Asn G 45		hr Arg	Asn Asp	Gln
Leu Gly A	Ala Gly	Ala Phe 0 55	Gly Gly T	Tyr Gln 60	Val Asr	n Pro Ty	r Leu Gly	
Phe-Glu I 65	Met_Gly-	_Tyr_Asp_ 70	-	-Gly-Ar 5	_	la_Tyr_L 80	ys_Gly_S	er

Ø

- Val Asp Asn Gly Ala Phe Lys Ala Gln Gly Val Gln Leu Thr Ala Lys 85 90 95
- Leu Gly Tyr Pro lle Thr Asp Asp Leu Asp lle Tyr Thr Arg Leu Gly
 100 105 110
- Gly Met Val Trp Arg Ala Asp Ser Lys Gly Asn Tyr Ala Ser Thr Gly 115 120 125
- Val Ser Arg Ser Glu His Asp Thr Gly Val Ser Pro Val Phe Ala Gly
 130 135 140
- Gly Val Glu Trp Ala Val Thr Arg Asp Ile Ala Thr Arg Leu Glu Tyr 145 150 155 160
- Gln Trp Val Asn Asn Ile Gly Asp Ala Gly Thr Val Gly Thr Arg Pro 165 170 175
- Asp Asn Gly Met Leu Ser Leu Gly Val Ser Tyr Arg Phe Gly Gln Glu 180 185 190
- Asp Ala Ala Pro Val Val Ala Pro Ala Pro Ala Pro Ala Pro Glu Val 195 200 205
- Ala Thr Lys His Phe Thr Leu Lys Ser Asp Val Leu Phe Asn Phe Asn 210 215 220
- Lys Ala Thr Leu Lys Pro Glu Gly Gln Gln Ala Leu Asp Gln Leu Tyr 225 230 235 240
- Thr Gln Leu Ser Asn Met Asp Pro Lys Asp Gly Ser Ala Val Val Leu 245 250 255
- Gly Tyr Thr Asp Arg Ile Gly Ser Glu Ala Tyr Asn Gln Gln Leu Ser 260 265 270
- Glu Lys Arg Ala Gln Ser Val Val Asp Tyr Leu Val Ala Lys Gly Ile 275 280 285
- Pro Ala Gly Lys lle Ser Ala Arg Gly Met Gly Glu Ser Asn Pro Val 290 295 300
- Thr Gly Asn Thr Cys Asp Asn Val Lys Ala Arg Ala Ala Leu Ile Asp 305———310———315———320———
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acc acc aaa aaa gat cat aaa ccg cag acc acc aaa ccg aaa gaa gtg

Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val

ccg acc acc aaa ccg Pro Thr Thr Lys Pro

1.00___

85

303

95

288

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                       25
                                     30
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                    40
                                   45
Asn Asn Pro Thr Cys Trp Ala lle Cys Lys Arg lle Pro Asn Lys Lys
   50
                 55
Pro Gly Lys Lys Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys
65
               70
                             75
Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val
           85
                         90
                                        95
Pro Thr Lys Pro
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<223> G2B
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Thr Ala Gln Thr Lys Gly Arg lle Thr Thr Ser Thr Gln Thr Asn Lys
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1

5

ccg agc acc aaa agc cgt agc aaa aac ccg ccg aaa aaa ccg aaa gat Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro Pro Lys Lys Pro Lys Asp 20 25 30

10

80

_	e Glu Val Phe As 40		ys Ser lle Cys Gly	· 4
			c ccg agc aac aaa e Pro Ser Asn Lys	192
-	s Pro Thr IIe Lys I	_	aa ccg acc acc aaa Pro Thr Thr Lys 80	240
			aa atg ccg aag aag ys Met Pro Lys Lys	288
gaa atc atc acc Glu lle lle Thr A 100			303	
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Pro Ser Thr Lys 20	Ser Arg Ser Lys 25	Asn Pro Pro Ly 30	s Lys Pro Lys Asp	
Asp Tyr His Pho 35	e Glu Val Phe Ası 40	n Phe Val Pro C 45	ys Ser lle Cys Gly	
Asn Asn Gln Le 50	eu Cys Lys Ser lle 55	Cys Lys Thr Ile 60	e Pro Ser Asn Lys	
Pro Lys Lys Lys 65	Pro Thr IIe Lys F 70	Pro Thr Asn Lys 75	Pro Thr Thr Lys 80	
	s Arg Asp Pro Ly		ys Met Pro Lys Lys	

Glu lle lle Thr Asn 100

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<220>
<223> G2AdCys
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                                                        48
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                       10
96
Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn
       20
                    25
                                 30
gat ttc cat ttc gaa gtg ttc aac ttc gtg ccg agc agc atc tgc agc
Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Ser Ser Ile Cys Ser
     35
aac aac ccg acc tgc tgg gcg atc agc aaa cgt atc ccg aac aaa aaa
                                                       192
Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile Pro Asn Lys Lys
   50
               55
                            60
240
Pro Gly Lys Lys Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys
65
             70
                          75
acc acc aaa aaa gat cat aaa ccg cag acc acc aaa ccg aaa gaa gtg
                                                       288
Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val
          85
                      90
                                   95
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Pro Thr Lys Pro
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        20
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Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Ser Ser Ile Cys Ser
      35
                    40
                                   45
Asn Asn Pro Thr Cys Trp Ala lle Ser Lys Arg lle Pro Asn Lys Lys
   50
                  55
                                60
Pro Gly Lys Lys Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys
65
               70
                             75
                                            80
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                          90
                                        95
Pro Thr Thr Lys Pro
        100
<210>9
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<213> Respiratory Syncytial Virus (RSV)
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<221> CDS
<222> (1)..(303)
<220>
<223> G2BdCys
<400> 9
acc gcg cag acc aaa ggc cgt atc acc acc agc acc cag acc aac aaa
                                                               48
Thr Ala Gln Thr Lys Gly Arg Ile Thr Thr Ser Thr Gln Thr Asn Lys
                          10
                                        15
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ccg agc acc aaa agc cgt agc aaa aac ccg ccg aaa-aaa-ecg-aaa-gat _96_ Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro Pro Lys Lys Pro Lys Asp 20 25

_	Phe Glu Va	_	g ccc agc agc e Val Pro Ser 45	atc tgc ggc 1 Ser lle Cys Gly	44
_		ys Ser Ile Ser		cg agc aac aaa o Ser Asn Lys	192
-	- ,	-		ccg acc acc aaa ro Thr Thr Lys)	240
		_		atg ccg aag aag Met Pro Lys Lys	
gaa atc atc a Glu lle lle Th 100	nr Asn			303	
<210> 10 <211> 10° <212> PR° <213> Res	Γ	ncytial Virus	(RSV)		
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Pro Ser Thr 20	•	g Ser Lys Asn 25	Pro Pro Lys l 30	ys Pro Lys Asp	
Asp Tyr His 35		al Phe Asn Ph IO	e Val Pro Ser 45	Ser Ile Cys Gly	
Asn Asn Glr 50	Leu Cys L 55	-	Lys Thr IIe Pr O	o Ser Asn Lys	
Pro Lys Lys 65	Lys Pro Th 70	r lle Lys Pro 7 75	Thr Asn Lys Pi 80	ro Thr Thr Lys)	
Thr Thr Asn	Lys Arg As 85	sp Pro Lys Th 90	r Pro Ala Lys 95	Met Pro Lys Lys	i

_Glu_lle-lle-Thr-Asn⁻ 100

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<213> Respiratory Syncytial Virus (RSV)
<220>
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<222> (1)..(42)
<220>
<223> G1ACys
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                                                        42
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<211> 14
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                        10
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agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa
Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
 1
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<212> PRT
<213> Respiratory Syncytial Virus (RSV)
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            5
                         10
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<223>G1A
<400> 15
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                                                           42
Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
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            5
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 1
                         10
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<210> 17 <211> 42

<212> DNA

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            5
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<213> Respiratory Syncytial Virus (RSV)

<213> Respiratory Syncytial Virus (RSV)

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<223> Xaa means Orn.
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<223> G1'B
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<211> 14
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<223> G1'BdC
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 1
           5
                       10
96
Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn
       20
                                  30
gat tee cat tee gaa gtg tee aac tee gtg eeg age age ate tge age
Asp Ser His Ser Glu Val Ser Asn Ser Val Pro Ser Ser Ile Cys Ser
     35
                  40
aac aac ccg acc tgc tgg gcg atc agc aaa cgt atc ccg aac aaa aaa
                                                        192
Asn Asn Pro Thr Cys Trp Ala IIe Ser Lys Arg IIe Pro Asn Lys Lys
   50
                55
                             60
240
Pro Gly Lys Lys Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys
65
             70
                          75
acc acc aaa aaa gat cat aaa ccg cag acc acc aaa ccg aaa gaa gtg
                                                        288
Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val
          85
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                                    95
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Pro Thr Thr Lys Pro
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<211> 303

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                          10
                                         15
             5
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         20
                       25
                                      30
Asp Ser His Ser Glu Val Ser Asn Ser Val Pro Ser Ser Ile Cys Ser
      35
                     40
                                    45
Asn Asn Pro Thr Cys Trp Ala IIe Ser Lys Arg IIe Pro Asn Lys Lys
                                 60
   50
                  55
Pro Gly Lys Lys Thr Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys
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Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val
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                                         95
Pro Thr Thr Lys Pro
        100
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<211> 51
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<223> G4A
<400> 25
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Val Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys
                          10
                                         15
aaa
                                              51
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<-210>−26−

Lys

<211> 17

<212> PRT

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<213> Respiratory Syncytial Virus (RSV)
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Lys
<210> 27
<211> 51
<212> DNA
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<223> G4AdC
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                                        15
                                             51
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Lys
<210> 28
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 1
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                         10
                                        15
Lys
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<210> 29

<211> 51

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                         10
                                            51
aaa
Lys
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 1
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<223> G4'A
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 1
            5
                         10
                                       15
Lys
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<210> 37
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<221> CDS
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Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
 1
            5
                          10
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
        20
                       25
                                      30
ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
      35
                    40
cgt atc ccg aac aaa aaa ccg ggc aaa aaa acc acg acc
                                                            183
Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr Thr
   50
                  55
                                60
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<213> Respiratory syncytial Virus (RSV)
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
 1
            5
                          10
                                        15
```

Val Pro Ser Ser Ile Asp Gly Asn Asn Gln Leu Xaa Lys Ser Ile Ser

```
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
         20
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
                    40
                                   45
Arg lle Pro Asn Lys Lys Pro Gly Lys Lys Thr Thr
   50
                  55
                                60
<210> 39
<211> 177
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(177)
<220>
<223> G198A
<400> 39
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
 1
            5
                          10
                                         15
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
        20
                       25
                                      30
ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
      35
                    40
                                   45
cgt atc ccg aac aaa aaa ccg ggc aaa aaa acc
                                                         177
Arg lle Pro Asn Lys Lys Pro Gly Lys Lys Thr
   50
<210> 40
<211> 59
<212>-PRT
<213> Respiratory syncytial Virus (RSV)
```

<400> 40

```
10
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
         20
                       25
                                      30
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
      35
                     40
                                    45
Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr
   50
                  55
<210> 41
<211>171
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(171)
<220>
<223> G196A
<400> 41
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
 1
            5
                          10
                                         15
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
         20
                       25
                                      30
ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
      35
                     40
cgt atc ccg aac aaa aaa ccg ggc aaa
                                                        171
Arg Ile Pro Asn Lys Lys Pro Gly Lys
   50
                  55
```

Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro

<210> 42 <211> 57

<212> PRT

```
<213> Respiratory syncytial Virus (RSV)
<400> 42
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
                          10
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
       . 20
                       25
                                      30
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
      35
                     40
                                   45
Arg lie Pro Asn Lys Lys Pro Gly Lys
   50
                  55
<210> 43
<211> 165
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(165)
<220>
<223> G194A
<400> 43
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
 1
            5
                          10
                                         15
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
        20
                       25
ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala lie Cys Lys
      35
                    40
                                   45
cgt atc ccg aac aaa aaa ccg
                                                     165
Arg Ile Pro Asn Lys Lys Pro
```

50

55

```
<210> 44
<211> 55
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 44
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
            5
 1
                          10
                                         15
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
        20
                       25
                                      30
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
      35
                                   45
                    40
Arg Ile Pro Asn Lys Lys Pro
   50
                  55
<210> 45
<211> 159
<212> DNA
<213> Respiratory syncytial Virus (RSV)
< 220 >
<221> CDS
<222> (1)..(159)
<220>
<223> G192A
<400> 45
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
 1
            5
                          10
                                        15
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
        20
                       25
                                      30
ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa
```

Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys

__35______40_____45_

```
159
cgt atc ccg aac aaa
Arg Ile Pro Asn Lys
   50
<210> 46
<211> 53
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 46
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
            5
                          10
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
        20
                       25
                                      30
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
      35
                    40
                                   45
Arg Ile Pro Asn Lys
   50
<210> 47
<211> 153
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(153)
<220>
<223> G6A
<400> 47
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
 1
            5
                          10
                                        15
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro-Asn-Lys-Pro-Asn-Asn-Asp-Phe-His-Phe-Glu_Val_Phe_Asn_Phe_Val
        20
                       25
                                     30
```

```
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
      35
                    40
                                   45
cgt atc ccg
                                               153
Arg Ile Pro
   50
<210> 48
<211> 51
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
 1
                          10
                                        15
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
        20
                       25
                                      30
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
                    40
                                   45
Arg Ile Pro
   50
<210> 49
<211> 99
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(99)
<220>
<223> G7A
<400> 49
aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg ccg tgc 48
Lys Pro Asn Asn Asp Phe His Phe Glu-Val-Phe Asn Phe Val Pro Cys
 1
            5
                          10
                                        15
```

ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa

```
Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys Arg Ile
        20
                      25
                                            99
ccg
Pro
<210> 50
<211> 33
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 50
Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Cys
 1
            5
                         10
                                       15
Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys Arg Ile
        20
                      25
                                     30
Pro
<210> 51
<211> 183
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(183)
<220>
<223>G200AdC
<400> 51
cag acc cag ccg agc aaa ccg acc aca cag cgt cag aac aaa ccg
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
 1
            5
                         10
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
   _____20______25______30__
```

age ate tgc age aac aac ceg ace tgc tgg geg ate tgc aaa egt ate

```
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
      35
                    40
                                   45
cgt atc ccg aac aaa aaa ccg ggc aaa aaa acc acg acc
                                                           183
Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr Thr
                 55
                                60
<210> 52
<211> 61
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400>52
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
                         10
                                        15
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
        20
                       25
                                     30
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
                    40
Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr Thr
                 55
<210> 53
<211> 177
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(177)
<220>
<223> G198AdC
<400> 53
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg
GIn-Thr-GIn-Pro-Ser-Lys-Pro-Thr-Thr-Lys-GIn-Arg-GIn-Asn_Lys_Pro_
                         10
                                        15
```

ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa 144

```
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
                                      30
        20
                       25
ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa
                                                               144
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
      35
                    40
                                   45
cgt atc ccg aac aaa aaa ccg ggc aaa aaa acc
                                                          177
Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr
   50
                  55
<210> 54
<211> 59
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 54
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
                          10
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
         20
                       25
                                      30
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
      35
                    40
                                   45
Arg lle Pro Asn Lys Lys Pro Gly Lys Lys Thr
   50
                  55
<210> 55
<211> 171
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(171)
<220>
```

<223> G196AdC

```
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
 1
            5
                          10
                                         15
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
        20
                       25
                                      30
ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa
                                                              144
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
      35
                    40
                                   45
cgt atc ccg aac aaa aaa ccg ggc aaa
                                                       171
Arg Ile Pro Asn Lys Lys Pro Gly Lys
   50
                  55
<210> 56
<211> 57
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 56
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
            5
                          10
                                         15
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
        20
                       25
                                      30
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
                    40
                                   45
Arg lle Pro Asn Lys Lys Pro Gly Lys
   50
                  55
<210> 57
<211> 165
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
< 222 > _(1)...(165) ____ ___
<220>
```

<223> G194AdC

```
<400> 57
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
             5
                          10
                                         15
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
         20
                                      30
ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa
                                                                144
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
      35
                     40
                                    45
                                                     165
cgt atc ccg aac aaa aaa ccg
Arg Ile Pro Asn Lys Lys Pro
   50
                  55
<210> 58
<211> 55
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 58
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
                          10
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
                       25
                                      30
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
      35
                     40
                                   45
Arg Ile Pro Asn Lys Lys Pro
   50
                  55
<210> 59
<211> 159
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221>-CDS---
<222> (1)..(159)
```

<220>

```
<400> 59
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
                          10
                                         15
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
         20
                       25
                                      30
ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa 144
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
      35
                     40
                                   45
cgt atc ccg aac aaa
                                                   159
Arg Ile Pro Asn Lys
   50
<210> 60
<211> 53
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 60
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
                          10
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
         20
                       25
                                      30
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
      35
                     40
                                   45
Arg Ile Pro Asn Lys
   50
<210> 61
<211> 153
<212> DNA
< 213 > Respiratory syncytial Virus (RSV) —
<220>
```

<223> G192AdC

<221> CDS

```
<222> (1)..(153)
<220>
<223> G6AdC
<400> 61
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
                          10
ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
         20
                       25
                                      30
ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa
                                                                144
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
cgt atc ccg
                                                153
Arg Ile Pro
   50
<210> 62
<211> 51
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 62
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
 1
             5
                          10
                                         15
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
         20
                       25
                                      30
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
      35
                     40
                                   45
Arg Ile Pro
   50
<-2·10>-63-
<211> 99
<212> DNA
```

<213> Respiratory syncytial Virus (RSV)

```
<220>
<221> CDS
<222> (1)..(99)
<220>
<223> G7AdC
<400> 63
aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg ccg agc 48
Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Ser
 1
            5
                         10
                                        15
agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa cgt atc 96
Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile
        20
                       25
                                             99
ccg
Pro
<210> 64
<211> 33
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 64
Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Ser
                         10
Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile
        20
                       25
Pro
<210> 65
<211> 183
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(183)
<220>
```

<223> G200B

```
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
             5
                          10
                                         15
ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
         20
ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa
Pro Cys Ser lle Cys Gly Asn Asn Gln Leu Cys Lys Ser lle Cys Lys
      35
                    40
                                   45
acc atc ccg agc aac aaa ccg aaa aag aaa ccg acc atc
                                                            183
Thr Ile Pro Ser Asn Lys Pro Lys Lys Pro Thr Ile
   50
<210> 66
<211> 61
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 66
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
                          10
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
                       25
                                      30
Pro Cys Ser lle Cys Gly Asn Asn Gln Leu Cys Lys Ser lle Cys Lys
      35
                    40
Thr Ile Pro Ser Asn Lys Pro Lys Lys Pro Thr Ile
   50
                  55
<210> 67
<211> 177
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221->-CDS--
<222> (1)..(177)
```

<400> 65

<220>

```
<223> G198B
<400> 67
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
                          10
                                         15
ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
         20
                       25
                                      30
ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
      35
                    40
                                                          177
acc atc ccg agc aac aaa ccg aaa aag aaa ccg
Thr Ile Pro Ser Asn Lys Pro Lys Lys Pro
   50
                  55
<210> 68
<211>59
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 68
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
                          10
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
         20
                       25
                                      30
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
      35
                    40
                                   45
Thr lle Pro Ser Asn Lys Pro Lys Lys Pro
   50
                  55
<210> 69
<211> 171
```

<220> <221> CDS

<212> DNA

<213> Respiratory syncytial Virus (RSV)

```
<222> (1)..(171)
<220>
<223> G196B
<400> 69
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
         20
                        25
                                      30
ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa
Pro Cys Ser lle Cys Gly Asn Asn Gln Leu Cys Lys Ser lle Cys Lys
      35
acc atc ccg agc aac aaa ccg aaa aag
                                                        171
Thr lle Pro Ser Asn Lys Pro Lys Lys
   50
                  55
<210> 70
<211> 57
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400>70
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
 1
            5
                          10
                                         15
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
         20
                       25
                                      30
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
      35
                     40
                                   45
Thr Ile Pro Ser Asn Lys Pro Lys Lys
   50
                  55
<210> 71
<211> 165
```

<212> DNA

<213 > Respiratory syncytial Virus (RSV)

```
<220>
<221> CDS
<222> (1)..(165)
<220>
<223> G194B
<400> 71
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
            5
                          10
                                         15
ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
         20
ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa
Pro Cys Ser lle Cys Gly Asn Asn Gln Leu Cys Lys Ser lle Cys Lys
                                    45
acc atc ccg agc aac aaa ccg
                                                      165
Thr Ile Pro Ser Asn Lys Pro
   50
                  55
<210> 72
<211> 55
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 72
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
                          10
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
                       25
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
      35
Thr Ile Pro Ser Asn Lys Pro
   50
                  55
```

<210> 73 <211> 159

```
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(159)
<220>
<223> G192B
<400> 73
age ace cag ace aac aaa eeg age ace aaa age egt age aaa aac eeg
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
                          10
                                         15
ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
         20
                       25
ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
      35
acc atc ccg agc aac
                                                  159
Thr Ile Pro Ser Asn
   50
<210> 74
<211> 53
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400>74
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
                          10
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
        20
                       25
                                      30
Pro Cys Ser lle Cys Gly Asn Asn Gln Leu Cys Lys Ser lle Cys Lys
      35
                    40
```

Thr Ile Pro Ser Asn

```
<210> 75
<211> 153
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(153)
<220>
<223> G6B
<400> 75
age ace cag ace aac aaa eeg age ace aaa age egt age aaa aac eeg
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
 1
            5
                          10
                                         15
ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
        20
ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
                    40
                                   45
acc atc ccg
                                                153
Thr Ile Pro
   50
<210> 76
<211>51
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 76
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
 1
            5
                          10
                                        15
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
                       25
                                      30
```

Pro-Gys-Ser-Ile-Gys-Gly-Asn-Asn-Gln-Leu-Cys-Lys-Ser_Ile_Cys_Lys_

45

```
Thr Ile Pro
   50
<210> 77
<211> 99
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(99)
<220>
<223> G7B
<400> 77
aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg ccc tgc 48
Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Cys
                          10
age ate tgc ggc aac aac cag etg tgc aaa age ate tgc aaa ace ate
                                                              96
Ser lle Cys Gly Asn Asn Gln Leu Cys Lys Ser lle Cys Lys Thr lle
        20
                       25
                                      30
                                              99
ccg
Pro
<210> 78
<211> 33
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 78
Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Cys
 1
            5
                          10
                                        15
Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys Thr Ile
        20
                       25
                                      30
Pro
```

```
<211> 183
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(183)
<220>
<223> G200BdC
<400> 79
age ace cag ace aac aaa eeg age ace aaa age egt age aaa aac eeg
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
 1
            5
                         10
ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
        20
                      25
                                     30
ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
      35
                                                          183
acc atc ccg agc aac aaa ccg aaa aag aaa ccg acc atc
Thr Ile Pro Ser Asn Lys Pro Lys Lys Pro Thr Ile
                 55
                               60
   50
<210> 80
<211> 61
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 80
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
 1
            5
                      10
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
        20
                      25
                                     30
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
         40 45
```

Thr Ile Pro Ser Asn Lys Pro Lys Lys Pro Thr Ile

60

55

```
<210> 81
<211> 177
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(177)
<220>
<223> G198BdC
<400> 81
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
        20
                       25
                                      30
ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa
                                                              144
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
      35
                                                         177
acc atc ccg agc aac aaa ccg aaa aag aaa ccg
Thr Ile Pro Ser Asn Lys Pro Lys Lys Pro
   50
                 55
<210> 82
<211> 59
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 82
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
 1
                          10
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
        20
                       25
                                      30
```

Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys 35 40 45

```
Thr lie Pro Ser Asn Lys Pro Lys Lys Pro
   50
<210> 83
<211> 171
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(171)
<220>
<223> G196BdC
<400> 83
age ace cag ace aac aaa eeg age ace aaa age egt age aaa aac eeg
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
 1
ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
        20
                       25
                                      30
ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
      35
                    40
acc atc ccg agc aac aaa ccg aaa aag
                                                       171
Thr Ile Pro Ser Asn Lys Pro Lys Lys
   50
                 55
<210> 84
<211> 57
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 84
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
 1
            5
                          10
                                        15
```

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val 20 25 30

```
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
     35
Thr Ile Pro Ser Asn Lys Pro Lys Lys
                 55
<210> 85
<211> 183
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(183)
<220>
<223> G200V
<400> 85
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
 1
cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
        20
                      25
                                    30
ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
     35
                   40
183
lle Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro Thr lle
   50
                 55
                               60
<210> 86
<211>61
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400>-86-
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
```

15

1

5

```
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
        20
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
                    40
                                   45
lle Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro Thr lle
   50
                                60
<210> 87
<211> 165
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(165)
<220>
<223> G194BdC
<400> 87
age ace cag ace aac aaa eeg age ace aaa age egt age aaa aac eeg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
 1
            5
                          10
ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
        20
                       25
                                      30
ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
      35
                    40
                                                     165
acc atc ccg agc aac aaa ccg
Thr Ile Pro Ser Asn Lys Pro
   50
                  55
<210> 88
<211> 55
<212> PRT
<213> Respiratory syncytial Virus (RSV)
```

<400> 88

```
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
                          10
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
                       25
                                      30
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
      35
                     40
Thr Ile Pro Ser Asn Lys Pro
   50
                  55
<210> 89
<211> 159
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(159)
< 220 >
<223> G192BdC
<400>89
age ace cag ace aac aaa eeg age ace aaa age egt age aaa aac eeg
                                                                48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
 1
            5
                          10
                                         15
ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
        20
                                      30
ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa
                                                              144
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
      35
                     40
acc atc ccg agc aac
                                                   159
Thr Ile Pro Ser Asn
```

<210> 90 <211> 53 <212> PRT

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<213> Respiratory syncytial Virus (RSV)
<400> 90
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
        20
                       25
                                      30
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
      35
                     40
Thr Ile Pro Ser Asn
   50
<210> 91
<211> 153
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(153)
<220>
<223> G6BdC
<400> 91
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
 1
            5
                          10
                                         15
ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
        20
                       25
ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
      35
                    40
                                   45
                                                153
acc atc ccg
Thr Ile Pro
```

```
<210> 92
<211> 51
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 92
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
 1
             5
                          10
                                         15
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
         20
                       25
                                      30
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
      35
                     40
                                   45
Thr Ile Pro
   50
<210> 93
<211> 99
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(99)
<220>
<223> G7BdC
<400> 93
aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg ccc agc 48
Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Ser
 1
                          10
                                         15
age ate tge gge aac aac eag etg tge aaa age ate age aaa ace ate
Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys Thr Ile
        20
                       25
ccg
                                              99
Pro
```

<210> 94 <211> 33

```
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 94
Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Ser
                                         15
                          10
Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys Thr Ile
         20
                       25
                                      30
Pro
<210> 95
<211> 303
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(303)
<220>
<223> G2V
<400>95
caa aac aga aaa atc aaa ggt caa tca aca cta cca gcc aca aga aaa 48
Gln Asn Arg Lys Ile Lys Gly Gln Ser Thr Leu Pro Ala Thr Arg Lys
cca cca att aat cca tca gga agc atc cca cca gaa aac cat caa gac
Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro Pro Glu Asn His Gln Asp
         20
                       25
                                      30
cac aac aac ttc caa aca ctc ccc tat gtt ccc tgc agt aca tgt gaa 144
His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Cys Ser Thr Cys Glu
      35
                     40
                                   45
ggt aat ctt gca tgc tta tca ctc tgc cat att gag acg gaa aga gca 192
Gly Asn Leu Ala Cys Leu Ser Leu Cys His Ile Glu Thr Glu Arg Ala
   50
                  55
                                 60
```

cca agc aga gca cca aca atc acc ctc aaa aag aca cca aaa cca aaa 240 Pro Ser Arg Ala Pro Thr Ile Thr Leu Lys Lys Thr Pro Lys Pro Lys 65 70 75 80

```
acc aca aaa aag cca acc aag aca aca atc cat cac aga acc agc cca 288
Thr Thr Lys Lys Pro Thr Lys Thr Thr Ile His His Arg Thr Ser Pro
           85
                          90
gaa acc aaa ctg caa
                                                   303
Glu Thr Lys Leu Gln
        100
<210> 96
<211> 101
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 96
Gln Asn Arg Lys Ile Lys Gly Gln Ser Thr Leu Pro Ala Thr Arg Lys
            5
                          10
                                         15
Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro Pro Glu Asn His Gln Asp
         20
                       25
                                      30
His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Cys Ser Thr Cys Glu
                     40
                                    45
Gly Asn Leu Ala Cys Leu Ser Leu Cys His Ile Glu Thr Glu Arg Ala
                  55
                                 60
Pro Ser Arg Ala Pro Thr Ile Thr Leu Lys Lys Thr Pro Lys Pro Lys
                              75
Thr Thr Lys Lys Pro Thr Lys Thr Thr Ile His His Arg Thr Ser Pro
           85
                          90
Glu Thr Lys Leu Gln
        100
<210> 97
<211> 303
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
< 221->-CDS-
<222> (1)..(303)
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<220>

<223> G2VdC

< 40	00>	97											
		_				caa t Gln S 10		Leu		_	_	ja aaa g Lys	48
						agc a Ser Ile			-			_	96
		Asn		GIn T		ccc ta u Pro	_	al Pro	_	_	_	gaa ys Glu	144 I
Gly		_	_			tc ago er Leu		_	-		-	-	192
	-	_	Āla P			acc Thr Le 7	u Lys	_	Thr F			ca aaa Lys	a 240
		Lys l	_			g aca Thr T 90		His F		_		gc cca Pro	a 288
_			ctg c Leu G								303		
<2	11> 12>	101 PRT	•	ory sy	'ncyti	ial Vir	us (RS	5 V)					
<40	00>	98				Gln S 10		Leu	Pro I 5	Ala T	hr Arç	g Lys	
Pro	Pro	lle A 20	sn Pr	o Ser	Gly 25	Ser Ile	Pro F	ro Gl	lu A	sn His	Gln .	Asp	

His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Ser Ser Thr Cys Glu 35 40 45

Gly Asn Leu Ala Cys Leu Ser Leu Ser His Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro Thr Ile Thr Leu Lys Lys Thr Pro Lys Pro Lys 70 75 Thr Thr Lys Lys Pro Thr Lys Thr Thr Ile His His Arg Thr Ser Pro 85 90 Glu Thr Lys Leu Gln 100 <210> 99 <211> 177 <212> DNA <213> Respiratory syncytial Virus (RSV) <220> <221> CDS <222> (1)..(177) <220> <223> G198V <400> 99 cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48 Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro 5 1 10 15 cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96 Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val 20 25 ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144 Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His 35 40 att gag acg gaa aga gca cca agc aga gca cca 177 lle Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro 50 55

<210> 100

<211> 59

<212> PRT

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<213> Respiratory syncytial Virus (RSV)
<400> 100
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
         20
                        25
                                       30
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
      35
                     40
                                    45
lle Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro
   50
                  55
<210> 101
<211> 171
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(171)
<220>
<223> G196V
<400> 101
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
 1
            5
                          10
                                         15
cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
         20
                        25
ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
      35
                     40
                                    45
att gag acg gaa aga gca cca agc aga
                                                        171
lle Glu Thr Glu Arg Ala Pro Ser Arg
```

```
<210> 102
<211> 57
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 102
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
 1
            5
                          10
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
        20
                       25
                                      30
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
      35
                     40
                                   45
lle Glu Thr Glu Arg Ala Pro Ser Arg
   50
                  55
<210> 103
<211> 165
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(165)
<220>
<223> G194V
<400> 103
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
 1
            5
                          10
                                         15
cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
        20
                       25
ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144
```

Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His

45

40

```
att gag acg gaa aga gca cca
                                                     165
lle Glu Thr Glu Arg Ala Pro
   50
                  55
<210> 104
<211> 55
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 104
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
         20
                       25
                                      30
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
      35
                     40
                                   45
lle Glu Thr Glu Arg Ala Pro
   50
                  55
<210> 105
<211> 159
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(159)
<220>
<223> G192V
<400> 105
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
 1
            5
                          10
                                         15
cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro-Glu-Asn-His-Gln-Asp-His-Asn-Asn-Phe-Gln-Thr Leu Pro Tyr Val
        20
                       25
                                      30
```

```
ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
      35
                    40
                                                  159
att gag acg gaa aga
lle Glu Thr Glu Arg
   50
<210> 106
<211> 53
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 106
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
 1
            5
                          10
                                        15
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
        20
                       25
                                      30
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
                    40
                                   45
lle Glu Thr Glu Arg
   50
<210> 107
<211> 153
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(153)
<220>
<223> G6V
<400> 107
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
```

```
cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
         20
                       25
                                      30
ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
      35
                    40
                                                153
att gag acg
lle Glu Thr
   50
<210> 108
<211>51
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 108
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
                          10
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
        20
                       25
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
      35
                    40
lle Glu Thr
   50
<210> 109
<211> 99
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(99)
<220>
<223> G7V
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Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Cys
            5
 1
                          10
agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat att gag 96
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His Ile Glu
        20
                       25
                                      30
                                              99
acg
Thr
<210> 110
<211> 33
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 110
Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Cys
                          10
                                         15
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His Ile Glu
                       25
                                      30
Thr
<210> 111
<211> 183
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(183)
<220>
<223> G200VdC
<400> 111
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
 1
                          10
                                        15
```

aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt ccc tgc 48

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val 20 25 30 ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144 Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His 35 183 lle Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro Thr lle 50 55 <210> 112 <211> 61 <212> PRT <213> Respiratory syncytial Virus (RSV) <400> 112 Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro 10 Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val 20 25 Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His 35 40 45 lle Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro Thr lle 50 55 60 <210> 113 <211> 177 <212> DNA <213> Respiratory syncytial Virus (RSV) <220> <221> CDS <222> (1)..(177) <220> <223> G198VdC

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96

```
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
 1
             5
                           10
                                          15
cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
         20
                        25
ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
      35
                     40
                                    45
att gag acg gaa aga gca cca agc aga gca cca
                                                           177
lle Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro
   50
<210> 114
<211> 59
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 114
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
 1
             5
                          10
                                          15
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
         20
                        25
                                       30
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
      35
                     40
                                    45
Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro
   50
                  55
<210> 115
<211> 171
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(171)
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<220>

<223> G196VdC

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Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
         20
                        25
                                      30
ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
      35
                     40
                                                        171
att gag acg gaa aga gca cca agc aga
lle Glu Thr Glu Arg Ala Pro Ser Arg
   50
                  55
<210> 116
<211>57
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 116
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
 1
            5
                          10
                                         15
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
         20
                        25
                                      30
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
      35
                     40
                                    45
lle Glu Thr Glu Arg Ala Pro Ser Arg
   50
                  55
<210> 117
<211> 165
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
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cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48

<400> 115

<222> (1)..(165)

```
<220>
<223> G194VdC
<400> 117
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
 1
             5
cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
         20
                        25
                                       30
ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
      35
                     40
att gag acg gaa aga gca cca
                                                      165
lle Glu Thr Glu Arg Ala Pro
   50
                  55
<210> 118
<211> 55
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 118
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
 1
             5
                          10
                                         15
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
         20
                        25
                                       30
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
      35
                     40
                                    45
lle Glu Thr Glu Arg Ala Pro
   50
                  55
<210> 119
<211> 159
<212> DNA
<213> Respiratory syncytial Virus (RSV)
```

<220>

<221> CDS <222> (1)..(159) <220> <223> G192VdC <400> 119 cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro 1 5 10 15 cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96 Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val 20 25 30 ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144 Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His 35 40 159 att gag acg gaa aga lle Glu Thr Glu Arg 50 <210> 120 <211> 53 <212> PRT <213> Respiratory syncytial Virus (RSV) <400> 120 Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro 1 5 10 15 Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val 20 25 30 Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His 35 40 45 lle Glu Thr Glu Arg 50

<210> 121

<211> 153

<212> DNA

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<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(153)
<220>
<223> G6VdC
<400> 121
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca
                                                               48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
 1
             5
                          10
                                         15
cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
         20
                        25
ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
      35
                     40
att gag acg
                                                153
lle Glu Thr
   50
<210> 122
<211> 51
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 122
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
 1
             5
                          10
                                         15
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
        20
                        25
                                      30
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
      35
                     40
                                    45
lle Glu Thr
```

```
<211> 99
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(99)
<220>
<223> G7VdC
<400> 123
aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt ccc agc 48
Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Ser
 1
            5
                          10
                                        15
agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat att gag 96
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His Ile Glu
        20
                       25
                                             99
acg
Thr
<210> 124
<211> 33
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 124
Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Ser
                          10
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His Ile Glu
                       25
                                     30
Thr
<210> 125
<211> 51
<-21-2->-DNA-
<213> Respiratory syncytial Virus (RSV)
```

<210> 123

```
<220>
<221> CDS
<222> (1)..(51)
<220>
<223> G4V
<400> 125
gtt ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc 48
Val Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys
                                      15
            5
                         10
                                           51
cat
His
<210> 126
<211> 17
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 126
Val Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys
 1
            5
                         10
                                      15
His
<210> 127
<211> 51
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(51)
<220>
<223> G4VdC
```

3

<400> 127

```
Val Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser
                                       15
 1
            5
                         10
cat
                                           51
His
<210> 128
<211> 17
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 128
Val Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser
 1
            5
                         10
His
<210> 129
<211> 17
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<220>
<223> Xaa means orn.
<220>
<223> G4'V
<400> 129
Val Pro Asp Ser Thr Asp Glu Gly Asn Leu Ala Xaa Leu Ser Leu Xaa
 1
            5
                         10
                                       15
His
<210> 130
<211> 17
<212> PRT
<213> Respiratory_syncytial_Virus-(RSV)
```

<220>

gtt ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc 48

```
<223> Xaa means orn.
<220>
<223> G4'vdC
<400> 130
Val Pro Ser Ser Thr Asp Glu Gly Asn Leu Ala Xaa Leu Ser Leu Ser
                                       15
            5
                         10
His
<210> 131
<211> 42
<212> DNA
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(42).
<220>
<223> G1V
<400> 131
agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat
                                                      42
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
 1
            5
<210> 132
<211> 14
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 132
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
 1
            5
```

<210> 133 <211> 42

<212> DNA

```
<213> Respiratory syncytial Virus (RSV)
<220>
<221> CDS
<222> (1)..(42)
<220>
<223> G1VdC
<400> 133
                                                       42
agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
                         10
 1
            5
<210> 134
<211> 14
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<400> 134
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
 1
            5
<210> 135
<211> 14
<212> PRT
<213> Respiratory syncytial Virus (RSV)
<220>
<223> Xaa means orn.
<220>
<223> G1'VdC
<400> 135
Ser Thr Asp Glu Gly Asn Leu Ala Xaa Leu Ser Leu Ser His
 1
            5
                        10
<210> 136
<211> 15
<212> PRT
```

<213> Respiratory syncytial Virus (RSV)

<220>
<223> Xaa means orn.

<220>
<223> G1'

<400> 136
Ser Ile Asp Ser Asn Asn Pro Thr Xaa Trp Ala Ile Ser Lys Cys
1 5 10 15

C'onclude